



USE OF CABLE

Robotic data cable for complex, highly flexible motion sequences in industrial applications (e.g. power chains, gantry robots, pick and place units, conveyor systems, machine tools, automatic. Manufacturing systems etc.).

For harsh environments (indoor & outdoor) with highest mech. stress, at the same time bending and torsion.



SPECIAL FEATURES

- low adhesion
- resistant to hydrolysis, microbes, cooling fluids, grease and lubricants
- resistant to oil acc. to IEC 60811-2-1
- UV-resistant
- halogen-free acc. to IEC 60754-1
- EMC compliant shielding (C-PUR)
- due to UL/CSA approval up to 300 V parallel laying with other cables with identical current voltage is permitted

REMARKS

- conform to RoHS
- conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- LABS-/silicone-free (during production)
- special versions, other dimensions, core and jacket colours according to your specifications on request.

PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	Super fine wire acc. to IEC 60228 cl. 6 pt. 4
Core insulation:	TPE
Core identification:	Coloured acc. to DIN 47100
Overall stranding:	≤ 11 cores stranded in layers, ≥ 12 cores stranded in bundles, (TP): pairs stranded in layers, each element with sliding tape
Shield3:	C-PUR: extremely torsion resistant spiral shield of tinned copper wires over sliding tape
Outer sheath:	PUR
Sheath colour:	Black (RAL 9005)
Rated voltage:	300 V
Testing voltage:	Min. 2 kV
Current-carrying-capacity:	Acc. to DIN VDE
Min. bending radius fixed:	4 x d
Min. bending radius moved:	7,5 x d < 10 m TL 10 x d ≥ 10 m TL Torsion: 10 x d
Operat. temp. fixed min/max:	-50 °C / +80 °C
Operat. temp. moved min/max:	-30 °C / +80 °C, Torsion: -25 °C / +80 °C
Burning behavior:	Flame-retardant acc. to IEC 60332-1-2, VW-1, FT1
Torsion:	3D-PUR: +/- 360 °/m, 3D-C-PUR: +/- 180 °/m
Approvals:	UL/CSA: cURus - 300V, 80°C
Speed:	Self-supporting: max. 10 m/s, gliding: max. 5 m/s Torsion: max.180 °/s
Acceleration:	Max. 20 m/s ² Torsion: max. 60 °/s ²

ITEM OVERVIEW

Product No.	Dimension [n x mm ²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1505367	4 X 0,25 (AWG 24)	4,5	11,00	29,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505354	7 X 0,25 (AWG 24)	5,6	17,50	46,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505306	12 X 0,25 (AWG 24)	8,8	30,00	120,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505307	18 X 0,25 (AWG 24)	10,3	45,00	151,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505308	25 X 0,25 (AWG 24)	11,0	63,00	155,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505311	4 X 0,34 (AWG 22)	4,8	14,00	35,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505355	5 X 0,34 (AWG 22)	5,3	17,00	47,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505312	12 X 0,34 (AWG 22)	8,8	41,00	101,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505313	18 X 0,34 (AWG 22)	10,3	62,00	145,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505314	25 X 0,34 (AWG 22)	11,4	85,00	180,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR DATA UL/CSA
1505352	8 X 0,14 (AWG 26)	5,9	21,00	48,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1505317	18 X 0,14 (AWG 26)	9,5	56,00	121,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505318	25 X 0,14 (AWG 26)	10,8	71,00	161,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505353	8 X 0,25 (AWG 24)	7,0	36,00	71,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505319	12 X 0,25 (AWG 24)	8,6	51,00	98,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505320	18 X 0,25 (AWG 24)	10,0	82,00	167,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505321	25 X 0,25 (AWG 24)	11,0	106,00	220,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505322	4 X 0,34 (AWG 22)	5,2	22,00	42,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505323	10 X 0,34 (AWG 22)	9,3	58,00	110,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505324	12 X 0,34 (AWG 22)	9,2	80,00	162,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505325	18 X 0,34 (AWG 22)	10,7	104,00	215,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505326	25 X 0,34 (AWG 22)	11,8	125,00	213,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR DATA UL/CSA
1505327	3 X 2 X 0,14 (AWG 26)	6,3	25,00	46,00	black	V3: KAWEFLEX KINEMATICS 3D-C-PUR DATA (TP) UL/CSA
1505328	4 X 2 X 0,14 (AWG 26)	7,2	29,00	59,00	black	V3: KAWEFLEX KINEMATICS 3D-C-PUR DATA (TP) UL/CSA
1505329	5 X 2 X 0,34 (AWG 22)	9,2	59,00	89,00	black	V3: KAWEFLEX KINEMATICS 3D-C-PUR DATA (TP) UL/CSA
1505330	8 X 2 X 0,34 (AWG 22)	10,1	92,00	156,00	black	V3: KAWEFLEX KINEMATICS 3D-C-PUR DATA (TP) UL/CSA
1505331	4 X (2 X 0,25) (AWG 24)	8,8	62,00	101,00	black	V4: KAWEFLEX KINEMATICS 3D-C-PUR DATA (TP)C UL/CSA
1505332	6 X (2 X 0,25) (AWG 24)	9,4	70,00	108,00	black	V4: KAWEFLEX KINEMATICS 3D-C-PUR DATA (TP)C UL/CSA
1505333	8 X (2 X 0,25) (AWG 24)	12,3	80,00	153,00	black	V4: KAWEFLEX KINEMATICS 3D-C-PUR DATA (TP)C UL/CSA
1505334	5 X (2 X 0,5) (AWG 21)	12,8	107,00	218,00	black	V4: KAWEFLEX KINEMATICS 3D-C-PUR DATA (TP)C UL/CSA